MULTIMEDIA UNIVERSITY

STUDENT IDENTIFICATION NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2020/2021

BAC4624 – ADVANCED ACCOUNTING INFORMATION SYSTEMS

(All Sections / Groups)

12th March 2021
9.00 a.m – 12.00 p.m
(3 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 3 pages excluding cover page with 4 Questions only.

2. Answer all **FOUR** questions. Mark distribution for each question is given.

3. Please write all your answers in the Answer Booklet provided.

QUESTION 1

Mutiara College has been in the educational industry for the past 20 years and has 3 campuses – in Johor, Selangor and Pulau Pinang. As part of their Corporate Social Responsibility (CSR) agenda and marketing strategy, the college decides to offer 20 scholarships to eligible students. The following describes the scholarship application process for the college:

Students will be required to submit the hardcopy application form to Sandy (the clerk at the front office). Once she receives the forms, Sandy will key in the details in the computer and file them in the application form file. Once the date of application closes, Sandy will process all applications using the computerised system. The application will be processed against the details in the Scholarship Criteria File that contains the educational requirements of the scholarship. Next, the system will print the Medical Report Notification meant for those applications that fit the requirement of the scholarship. Sandy will send this notification to the applicants for their further actions.

Most of the time, applicants are given a maximum of one week to submit their medical report to the college. Again, Sandy will compile these reports and key in the medical data into the system (these data are usually saved in the Medical Status File) and she will keep all the hardcopy reports in the Medical Report File, which are kept in a big box below her desk.

Usually Sandy will process the medical summary of the applicants every 2 weeks and notification will be forwarded to Michael (scholarship manager) for his review. Once reviewed, Michael will approve the scholarship application. Later, the system will print the Scholarship Notification and Successful Scholarship Report. Sandy will send the notification to the applicants and the report will be sent to Michael.

Required:

a) Display a context diagram for the Scholarship Application Process. (3 marks)

b) Show a Level-0 DFD to document the above process. (9 marks)

c) Show a system flowchart for the above process. (13 marks)

(Total: 25 marks)

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QUESTION 2

Accounting information systems (AIS) is a structure that a business uses to collect, store and manage its financial data to be used by various users internally and externally. The biggest advantage of AIS is the speed of processing certain tasks. AIS are usually changed/updated due to several reasons.

a) Explain **THREE (3)** reasons why AIS are changed/updated. (9 marks)

b) During the development and implementation of the new AIS, many people are involved, including the top management, accountants and the external players. Justify why these groups of people need to get involved.

(9 marks)

c) Sometimes, these changes/updates in the AIS are not accepted by the users. Explain in detail **TWO (2)** reasons why.

(7 marks)

(Total: 25 marks)

QUESTION 3

a) "As long as we plan a systems development project and carry out the project in an orderly manner, we don't need a formal, documented systems development methodology." Do you agree? Discuss.

(10 marks)

b) Identify the ways an organization can gain full advantage of using a Request for Proposal (RFP). Explain **TWO (2)** importance of using a RFP.

(8 marks)

c) Your client has hired your company to develop a custom system for their new billing system. The owner, David Simone, is thoughtful and visionary, but not particularly well-versed in systems development methodology. To help him imagine what the new system might look like, you believe that a prototype might help.

(i) In David's situation, explain the purpose of prototyping and why it is useful.
(4 marks)

(ii) Even though the prototype might not be converted into a fully functional system and thrown away completely, justify why prototyping will still be beneficial to David.

(3 marks)

(Total: 25 marks)

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QUESTION 4

a) Discuss the situations in which an organization should develop a custom software. Provide how an organization can develop custom software.

(8 marks)

b) Discuss why the knowledge of documentation procedures (such as DFDs and systems flowcharts) is important to the acquisition/development process.

(8 marks)

c) Based on the details of the activities in the table below:

Activity	Immediate Precedent	Duration (weeks)
A	-	3
B	A	7
C	B	6
D	-	4
E	C, D	2
F	E	4
G	-	8
H	G	1
I	F, H	5
J	I	10
K	F, H	2
L	K	9
M	J, L	4

(i) Construct a PERT diagram. (2 marks)

(ii) Identify all possible paths through the diagram, including how long each path takes. (3 marks)

(iii) Identify the critical path and its duration. (1 mark)

(iv) What is the effect on the critical path if Activity K experiences 1 week of unplanned delays and Activity J is able to be completed in 6 weeks?

(3 marks)

(Total: 25 marks)

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